

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-288387
 (43)Date of publication of application : 19.10.1999

(51)Int.Cl. G06F 12/08
 G06F 12/08
 G06F 3/06
 G06F 3/06

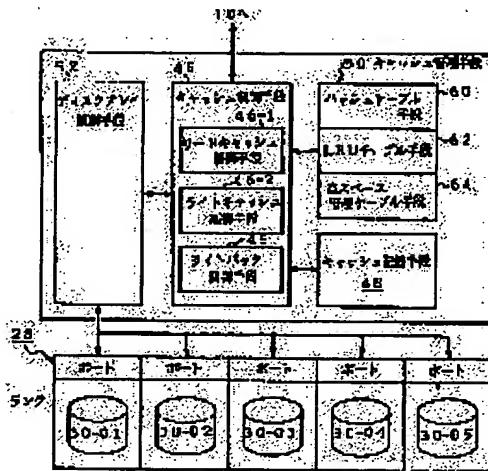
(21)Application number : 10-352414 (71)Applicant : FUJITSU LTD
 (22)Date of filing : 11.12.1998 (72)Inventor : YORIMITSU KEIICHI
 IWATANI SAWAO

(54) DISK CACHE DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a device for optimizing a disk cache function whose object is the disk array device of a RAID(redundant arrays of inexpensive disks) type.

SOLUTION: This disk cache device demonstrates the maximum effects of providing a free space management table 64 used for the management of a cache memory 48 and using the cache memory 48 for staging from a disk device 30 when the cache memory 48 erroneously hits a read request and efficiently performs a cache processing whose object is a disk array operated in RAIDs 0, 1, 3 and 5. Effective data are prepared on a cache block so as to enable access like the RAID 3 capable of calculating a parity without the need of disk read even in the operation of the RAID 5.



LEGAL STATUS

[Date of request for examination] 11.12.1998
 [Date of sending the examiner's decision of rejection] 10.07.2001
 [Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]
 [Date of final disposal for application]
 [Patent number]
 [Date of registration]
 [Number of appeal against examiner's decision of rejection]
 [Date of requesting appeal against examiner's decision of rejection]
 [Date of extinction of right]